ACCESSION NR: AP4043523 S/0258/64/004/003/0504/0509

AUTHORS: Sheremet'yev, M. P. (L'vov); Pelekh, B. L. (L'vov)

TITLE: On the construction of refined plate theory

SOURCE: Inzhenernyy zhurnal, v. 4, no. 3, 1964, 504-509

TOPIC TAGS: plate theory, boundary condition, normal stress, displacement field, stress tensor, deformation energy, rotation angle, symmetric deformation, circular plate, concentrated load, cantilever beam

ABSTRACT: A general theory of plates is derived which allows four boundary conditions to be satisfied on the plane surface $z = \pm h$. These conditions are general and can be static, geometric, or displacement type conditions. The only assumptions made are: 1) the deformation component $e_{zz} = 0$; and 2) the normal stress σ_{zz} is small compared to other stresses. The plate surface is divided into an x,y coordinate grid and the displacement field represented by

$$u = u^{(0)} + z\gamma_3^{(0)} + z^3 (u^{(T)} + z\gamma_3^{(T)}), \quad v = v^{(0)} + z\gamma_4^{(0)} + z^3 (v^{(T)} + z\gamma_4^{(T)}).$$

Card 1/3

ACCESSION NR: AP4043523

This equation is subsequently discussed in four specific problems: 1) fixed circular plate under uniformly distributed load; 2) fixed plate with concentrated load at the center; 3) hinged beam with uniform load; and 4) defloction of a cantilever beam with a concentrated load at its end. Orig. art. has: 29 equations.

ASSOCIATION: none

SUBMITTED: 12Jul63 ENCL: 00

SUB CODE: ME NO REF SOV: 006 OTHER: 000

Card 3/3

MAKSUMOV, S.S.; SARSIS'YANTS, S.L.; SHEREMET'YEV, N.N.; CHICHERIN, P.I.; ZAPROMETOVA, L.V.; ZHURAVLEVA, N.A.

Virusological characteristics of the outbreak of poliomyelitis in Tashkent in 1959. Vop. virus. 7 no.2:239 Mr-Ap '62. (MIRA 15:5)

1. Tashkentskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(TASHKENT--POLIOMYELITIS)

SHEREMET'YEV, N.N.

Dynamics of the isolation of poliomyelitis vaccine strains from flies following vaccination. Zhur. mikrobiol., epid. i immun. 41 no.10:102-106 '64. (MIRA 18:5)

1. Tashkentskiy institut vaktsin i syvorotok.

SHEREMET'YEV, N. V.

Increasing the operational efficiency of snow removing machinery. Put' i put. khoz. 7 no.3:18-19 '63. (MIRA 16:4)

1. Zamestitel' nachal'nika Murmanskoy distantsii Oktyabr'skoy dorogi.

(Railroads--Snow plows)

ALEKSANDROV, G.P.; DEMKIV, O.T.; SHEVCHENKO, Yu.V.; SHEREMET'YEV, S.Kh.

Flame-photometric determination of strontium in a methane-air flame using the SF-5 spectrophotometer. Ukr.khim.zhur. 29 no.6:623-627 '63. (MIRA 16:9)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR.
(Strontium--Spectra) (Flame photometry)

CHOPIK, V.I.; SHEREMET'YEV, S.Kh.

Flame photometric determination of potassium in molasses stillage. Ferm. i spirt. prom. 30 no.3:23-24 '64. (MIRA 18:2)

1. L'vovskiy sel'skiy oblastnoy komitet Kommunisticheskoy partii Ukrainy (for Chopik). 2. Institut geologii goryuchikh iskopayemykh AN UkrSSR (for Sheremet'yev).

ALEKSANDROV, G.P. [deceased]; SHEREMET'YEV, S. Kh.; CHUDKOVSKAYA, R. Ya.

Flame-photometric determination of lithium in natural potassium salts. Ukr. khim. zhur. 31 no. 11:1197-1200 '65 (MIRA 19:1)

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR.

SHEREMET'YEV, V. A., Cand Tech Sci -- (diss) "Methods of Measurement and Recording of the Angle of Overdrive of the Rotor of Synchronous Machines." L'vov, 1957. 16 pp with ill (Min of Higher Education Ukr SSR, L'vov Polytechnic Inst), 150 copies. List of author's works at ~~the~~ end of ~~the~~ text (15 titles).

(KL, 47-57, 89)

AUTHOR: Karandeyev, K.B., Corresponding Member Doctor of Technical Sciences; Vishenchuk, I.M., Senior Scientific Collaborator; Sheremet'yev, V.A., Senior Engineer

TITLE: An Electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines (Elektronnyy fazometr dlya izmereniya i ostsillografirovaniya ugla vybega rotora sinkhronnykh mashin)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Priborostroyeniye, 1958, Nr 1, pp 22-27 (USSR)

ABSTRACT: The paper proposes a circuit for a phase meter to measure and oscillograph with little phase angle lag, which is essentially free from the normal defects. The lag in this circuit is 0.2 m/sec, it narrows the measuring limits of the angle to 3-4 electric degrees. The semi-variable resistances of 100 k ohm in the control grid circuit of the phantastron generator is for correcting sensitivity and makes it possible to

An Electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines

of the zero point at the balance amplifier. Technical characteristics of the phase meter are: 3 limits for angle measurement ± 180°, ± 90°, ± 45°. Indicating instrument is a microammeter for ± 50 micro-amps. Fixing the angle on the oscillograph takes 0.02 secs, delay in oscillographing is practically zero. The phase meter weighs approx. 6 kg. Power consumption is not over 50 watts. The device is fed with 110 or 220 volts, at 50 cps. The phase meter measures and oscillographs the rotor coasting angle in synchronous machines within limits of ± 180 electric degrees with an accuracy of up to 0.5° plus 1%. The phase meter works harmoniously with the electromagnetic phase transmitter, which transmits the electrodynamic power, and voltage in pulse form. There are 1 circuit diagram, 6 diagrams, 1 table and 5 Soviet references.

VISHENCHUK, I.M.; KOTYUK, A.F.; SHEREMET'YEV, V.A.

Electronic phase-measuring instruments used in industrial frequency circuits. Izm.tekh. no.2:58-59 Mr-Ap '58. (MIRA 11:3)
(Electronic instruments)

VISHENCHUK, I.M., inzh.; KOTYUK, A.F., inzh.; SHEREMET'YEV, V.A., inzh.

Device for measuring and oscillographing the runaway angle of synchronous-machine rotors. Elek. sta. 29 no.7:43-45 Jl '58. (MIRA 11:10)

(Electric machinery, Synchronous--Measurement)

SHEREMET'YEV, V.A., inzh.

Effect of remelting in a vacuum arc furnace on the properties of heat-resistant nickel-base alloys. Izv.vys. ucheb.zav.; chern.met. 2 no.10:43-48 O '59. (MIRA 13:3)

1. Institut metallurgii im.A.A.Baykova. Rekomendovano kollokviumom laboratorii No.2 Instituta metallurgii im.A.A. Baykova.
(Heat-resistant alloys) (Nickel alloys)
(Vacuum metallurgy)

SHEREMET'YEV, V.A.

Phase measuring device for controlling the rotor lead angle in synchronous machines. Avtom.kont.i izm.tekh. no.4:109-115 '60. (MIRA 13:8)
(Electric machinery, Synchronous--Regulation)

SHERMET'YEV, V.A.; BARANNIK, V.P.

Investigation of certain corrosion inhibitors as used in petroleum-production equipment. Izv.vys.ucheb.zav.; neft' i gaz 6 no. 12:121-123 '63. (MIRA 17:5)

1. Sevastopol'skiy filial Odesskogo politekhnicheskogo instituta.

SHEREMET'YEV, V.A.; BARANNIK, V.P.

New inhibitor for slowing down the corrosion of oil-well equipment. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 16 no.8:21-22 '63. (MIRA 16:10)

BARANNIK, V.P.; ANDREYEV, L.N.; SHEREMET'YEV, V.A.

Preventing the entrainment of chromic anhydride during chromium plating. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. 16 no.10:13-16 '63. (MIRA 16:11)

SHEREMET'YEV, V.A.; BARANNIK, V.P.

Corrosion inhibition of petroleum production equipment. Neft. i gaz. prom. no.1:65-66 Ja-Mr '64. (MIRA 18:2)

BARANNIK, V.P., doktor khim. nauk; SHEREMET'YEVA, A.I., inzh.;
SHEREMET'YEV, V.A., inzh.

Reducing the consumption of chromic anhydride in electrolytic chromium plating. Mashinostroenie no.4:76-78 Jl-Ag '64. (MIRA 17:10)

SHIRE[illegible]EV, V.S., Cand Tech Sci--(diss) " Study of the performance of ~~the~~ a [illegible] combustion furnace (on wood waste products of loggings and wood processing." Len, 1958. 20 pp with graphs (Min of Higher Education. Polytech Inst im M.I. Kalinin), 100 copies (KL,25-58,115)

SHEREMET'YEV, V.S.

Basementless furnace units for steam power plants of logging enterprises. Trudy LTA no.83:177-201 '59. (MIRA 13:4)

(Steam power plants)

[illegible], V.N.; [illegible]'YEV, Ye.V.; NOVIKOV, V.A.

Bore results of testing the PK-48 rock drill. Trudy Inst. gor. dela AN Kazakh. SSR 17:35-39 '65. (MIRA 18:7)

NOVIKOV, V.A.; LELYUKH, V.G.; SHEREMET'YEV, Ye.V.

Problems of using diesel hammers for borehole drilling in strip mining. Trudy Inst. gor. dela AN Kazakh. SSR 17:40-49 '65. (MIRA 18:9)

NOVIKOV, V.A.; SHEREMET'YEV, Ye.V.; LELYUKH, V.G.

The KSO-25 rig and results of its use in the Dzhezkazgan mine. Vest. AN Kazakh. SSR 21 no.7:72-76 Jl '65. (MIRA 18:8)

SH [illegible] V. I., KANBAYEV, A.T.

Results of using coring rigs at the Tamdykazgan Mine. Trudy Inst. gor. dela AN Kazakh. SSR 13:124-126 '64. (MIRA 17:7)

SHEREMET'YEV, Ye.V.

Comparative evaluation of the performance of PK-35B and KTSM-multiple stroke rock drills in Dzhezkazgan Mines. Izv. AN Kazakh. SSR. Ser. gor dela no.1:65-68 '60. (MIRA 13:10)
(Dzhezkazgan region--Mining engineering)
(Rock drills)

SHEREMET'YEV, Ye.V.

Testing the PK-35V fast percussion core drill. Vest.AN Kazakh.SSR 16 no.11:106-107 N '60. (MIRA 13:12)
(Boring machinery)

SHEREMET'YEV, Ye.V.

Modern drilling machines mnaufactured by West German and Swedish firms. Izv.Akad.Kazakh.SSR.Ser.gor.dela no.2:114-120 '61.
(MIRA 15:2)

(Germany, West--Boring machinery) (Sweden--Boring machinery)

SHEREMET'YEV, Yu., inzh.

Ships are waiting for them... Prof.-tekh.obr. 22 no.11:12 N '65. (MIRA 18:12)

1. Uchebno-metodicheskiy otdel po spetsial'nostyam transporta i svyazi Gosudarstvennogo komiteta po professional'no-tekhnicheskomu obrazovaniyu.

SEYFUL'-MULYUKOV, R.B.; TOLSTOY, N.S.; SHEREMET'YEV, Yu.F.

Structural manifestation of the tectonic elements in the Mesozoic sediments in the Volga Valley portion of Volgograd Province. Neftegaz.geol.i geofiz. no.9:9-14 '63. (MIRA 17:3)

1. Nauchno-issledovatel'skaya laboratoriya geologicheskikh krigeriyev otsenki perspektiv neftegazonosnosti Gosudarstvennogo geologicheskogo komiteta SSSR.

DOLITSKIY, V.A.; KUCHERUK, Ye.V.; TOLSTOY, N.S.; SHEREMET'YEV, Yu.F.

Structural map of the northeastern part of Volgograd Province. Izv.vys.ucheb.zav.; geol. i razv. 6 no.11:143-148 N '63. (MIRA 18:2)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M.Gubkina i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

BARANNIK, V.P., doktor khim. nauk; SHEREMET'YEVA, A.I., inzh.;
SHEREMET'YEV, V.A., inzh.

Reducing the consumption of chromic anhydride in electrolytic chromium plating. Mashinostroenie no.4:76-78 Jl-Ag '64.
(MIRA 17:10)

MIKHAYLOV, F.K., VOLOVA, L.M., SHPREMET'YEVA, G.I.

Kinetics of zinc chloride ammoniate formation at high temperatures.
Ukr. khim. zhur. 30 no.1:39-43 '64. (MIRA 17:6)

1. Nauchno-issledovatel'skiy institut obshchey khimii.

USSR/Microbiology - General Microbiology. F
Variability and Heredity.

Abs Jour : Ref Zhur Biol., No 22, 1958, 99273

Author : Sheremet'yeva, L.G.

Inst : Minsk Medical Institute

Title : Variability of Dysentery Bacilli in the Immune Organism under the Influence of Antibiotics.

Orig Pub : Sb. nauchn. rabot. Minskiy med. in-t, 1957, 18, 43-55

Abstract : By passing dysentery bacteria of Flexner's type through the organism of immune mice, coccal variants were obtained, typical in biochemical properties, with a lowered agglutinability and virulence, but retaining immunogenic properties. Passing through bile and slanting agar produced a reversion to the previous rod-shaped form. Under the action of streptomycin, biomycin, and

Card 1/2

USSR/Microbiology - General Microbiology. F
Variability and Heredity.

Abs Jour : Ref Zhur Biol., No 22, 1958, 99273

synthomycin on the dysentery cultures, variants resistant to the corresponding antibiotics were obtained, which changed certain morphological, cultural and partially serological properties. Noted is a significant lowering of virulence of antibiotic-resistant strains as compared with intitial cultures. Immunogenic properties in the synthomycin-resistant variant were retained. -- G.P. Kalina

Card 2/2

RAKHMANOV, V.A.; LINDENBRATEN, L.D.; ROMANENKO, G.F.; KAZANTSEVA, N.S.; SHEREMET'YEVA, L.G.

Skin changes in radiation exposure regions at late dates after radio- and gammatherapy of malignant tumors. Med. rad. 8 no.10:43-47 O '63. (MIRA 17:6)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. L.D. Lindenbraten) i kafedry kozhnykh bolezney (zav. - chlen-korrespondent AMN SSSR prof. V.A. Rakhmanov) I-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

ZADOV, Aleksandr Grigor'yevich; ANISIMOV, Aleksandr Mikhaylovich; BAZLOV, Mikhail Nikolayevich; BRAGIN, Viktor Alekseyevich; GUDKOV, Boris Aleksandrovich, KOROTKOV, Sergey Tikhonovich, SHTEYNER, Samuil Iovelevich; SHEREMET'YEVA, L.P., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Petroleum industry in Krasnodar Territory] Neftianaia promyshlennost' Krasnodarskogo kraia. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1957. 69 p. (MIRA 11:2)
(Krasnodar Territory--Petroleum industry)

L 9898-63 EWP(q)/BDS/EWT(m)--AFFTC--JD/WB
ACCESSION NR: AP3000412 S/0076/63/037/005/1037/1042

AUTHOR: Tsvetnova, R. V.; Dyatkina, S. L.; Sheremet'yeva, S. N.; Kel'n, A. R.; Krasil'shchikov, A. I.

58
57

TITLE: Corrosion and passivity of titanium in sulfuric acid solution

SOURCE: AN SSSR. Zhurnal fizicheskoy khimii, v. 37, no. 5, 1963, 1037-1042

TOPIC TAGS: corrosion, passivity of titanium, electrochemical behavior of Ti; passivating adsorption layer

ABSTRACT: The electrochemical and corrosion behavior of Ti in 5 and 10 N sulfuric acid solutions, alone and in the presence of additions of potassium iodide, tetraethylammonium iodide, copper sulfate and nitric acid, in a nitrogen atmosphere, has been investigated by the potentiometric and discharge curve methods, as well as by gravimetric determination of the corrosion losses. Passivation is impeded by raising the temperature. The addition of I sup -, Cu sup 2+ and HNO sub 3 retards anodic solution of Ti in H sub 2 SO sub 4 and facilitates initial passivation of the metal. It is suggested that the

Card 1/2

L 9898-63
ACCESSION NR: AP3000412

passivity of Ti is due to the formation of a passivating adsorption layer on its surface. Orig. art. has: 3 equations, 1 table, 8 figures.

ASSOCIATION: Gosudarstvenniy nauchno-issledovatel'skiy i proektniy institut azotnoy promy*shlennosti (State Scientific Research and Design Institute for Nitrogen Industry)

SUBMITTED: 22Jan62 DATE ACQ: 19Jun63 ENCL: 00

SUB CODE: 00 NR REF SOV: 011 OTHER: 006

Card 2/2

BATRAKOVA, T.V.; SHEREMET'YEVA, T.V.; KAMALOV, S.K.; PYRKOV, L.M.

Production of fiber-forming materials on the base of acrylonitrile copolymers with N-alkyl derivative amides of citraconic and maleic acid. Khim. volok. no.6:17-19 '65. (MIRA 18:12)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
Submitted October 10, 1964.

L 37203-66 EWT(m)/EWP(j)/T IJP(c) WW/RM/JWD
ACC NR: AP6012416 (A) SOURCE CODE: UR/0183/65/000/006/0017/0019

AUTHOR: Batrakova, T. V.; Sheremet'yeva, T. V.; Kamalov, S. K.; Pyrkov, L. M.

ORG: IVS AN SSSR

TITLE: Preparation of fiber-forming materials based on acrylonitrile copolymers with N-alkyl amides of citraconic and maleic acids

SOURCE: Khimicheskiye volokna, no. 6, 1965, 17-19

TOPIC TAGS: synthetic fiber, acrylonitrile, copolymerization, chemical reaction, tensile strength

ABSTRACT: New copolymers of acrylonitrile with unsubstituted and with N-substituted monoamides of citraconic and maleic acids were synthesized and characterized. Copolymerizations were in aqueous media using oxidation-reduction initiators. The monoamides copolymerize with acrylonitrile in different molar ratios; their activity is greater than the activity of pure acrylonitrile since resultant copolymers were richer in monoamide than the composition of the initial mixture. Fibers formed from the copolymers were stronger than polyacrylonitrile fibers.

UDC: 677.494.745.32

Card 1/2

L 37203-66

ACC NR: AP6012416

Fibers formed when castor oil was used in the hardening bath had higher strength indices than fibers formed in a 40% aqueous dimethylformamide solution. Greates strength was obtained in compositions containing 4-5 mol% of the second component, regardless of the substitutent at the amide nitrogen. Orig. art. has: 3 tables and 1 figure.

SUB CODE: 07,11/ SUBM DATE: 10Oct64/ ORIG REF: 003/ OTH REF: 001

Card 2/2/mcp

L 35304-66 EWT(m)/EWP(j)/T IJP(c) WW/JWD/RM

ACC NR: AP6012720 (A) SOURCE CODE: UR/0190/66/008/004/0732/0735

17
B

AUTHOR: Sheremeteva, T. V.; Gusinskaya, V. A.

ORG: Institute of Macromolecular Compounds, AN SSSR (Institut vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Preparation of succinamides with a regular structure

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 4, 1966, 732-735

TOPIC TAGS: copolymerization, succinamide, polyamide

ABSTRACT: The migrational copolymerization of succinamides with various diamines was investigated. The reaction of migrational copolymerization proceeds at low temperatures from -10 to 78 C in an aqueous alkali medium with pH = 9—9.5. It is shown that migrational copolymerization of succinamides with diamines can result in homogeneous and mixed regular polysuccinamides with a molecular weight of 15,000 to 20,000. Polysuccinamides were synthesized from hexamethylenedisuccinamide and typed for the first time. The authors thank Ye. I. Pokrovskiy and Ye. F. Fedorova for taking the IR spectrum and the analytical Laboratory of the Institute of Macromolecular Compounds for carrying out analyses. Orig. art. has: 2 tables. [NT]

SUB CODE: 11, 07/ SUBM DATE: 03May65/ ORIG REF: 003/ OTH REF: 002

Card 1/1

LYASHENKO, V.D. [deceased]; KOLESOVA, M.B.; ALEKSANDR, Kh.L.; SHEREMET'YEVA, V.A.

Sulfur-containing derivatives of purines and pyrimidines. Zhur. ob. khim. 34 no.8:2752-2756 Ag '64. (MIRA 17:9)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

L 22739-66 EWP(k)/EWP(h)/EWT(d)/EWP(l)/EWP(v)
ACC NR: AP6013621 SOURCE CODE: UR/0105/65/000/009/0088/0088

AUTHOR: Aleksenko, G. V.; Biryukov, V. G.; Borisenko, N. I.; Borushko, V. S.; Kovalev, N. N.; Kostenko, M. P.; Obolenskiy, N. A.; Petrov, G. N.; Rozanov, A. A.; Skidanenko, I. T.; Timofeyev, P. V.; Chilikin, M. G.; Sheremet'yevskiy, N. N. 21 79

ORG: none B

TITLE: Honoring the 60th birthday of Professor Andronik Gevondovich Iosif'yan

SOURCE: Elektrichestvo, no. 9, 1965, 88

TOPIC TAGS: academic personnel, scientific personnel, automation, electric engineering, servosystem, automatic control

ABSTRACT: 21 July 1965 was the 60th birthday of the eminent Soviet scientist in the field of electrical mechanics and automation, Dr. Techn. Sci., Professor, Member of the AS Armenian SSR, Hero of Socialist Labor, Laureate of the State Prize, A. G. Iosif'yan. His scientific contributions are numerous. During 1931-1934 he developed the theory of the combined synchronous control circuit with AC commutator generator. Subsequently, he invented the contactless selsyn. He was the first Soviet scientist to publish studies of thyratron-based servosystems for the control of electrical machinery. During 1940-1945 he made a major contribution to the theory of electrical machinery and automatic control by publishing studies on the general theory of the elec- 2

UDC: 621.3:65.011.56

Card 1/2

L 22739-66

ACC NR: AP6013621 2

tromechanical amplifier (amplidyne) and power-driven synchronous servosystems. In his 35 years of scientific activity A. G. Iosif'yan has published more than 60 studies on many problems of electrical mechanics and automatic control and has been the author of 24 inventions. A. G. Iosif'yan is the founder and director of the All-Union Order of Labor Red Banner Scientific Research Institute of Electromechanics, and it was on his initiative that branches of this institute have been established in Leningrad, Tomsk, Yerevan, Frunze, Iskra, and Kudinovo. Between 1950 and 1955 he held the elective office of Vice President of the Armenian Academy of Sciences, and since 1955 he has been Editor-in-Chief of the journal Elektrotekhnika (Electrical Engineering). He is also the bearer of many other honors. Among other things, he was elected delegate to the 22nd Congress of the CPSU. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2 dd

Sheremet'yevskiy, N.N.

Vsesoyuznoye ob"yedinennoye soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovannomu elektroprivodu v promyshlennosti. 3d, Moscow, 1959

Elektroprivod i avtomatizatsiya promyshlennykh ustanovok; trudy soveshchaniya (Electric Drive and Automation in Industrial Systems; Transactions of the Conference) Moscow, Gosenergoizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petrov, A.A. Sirotin, and M.G. Chilikin; Eds.: I.I. Sud, and E.F. Silayev; Tech. Eds.: K.P. Voronin, and G.Ye. Larionov.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

COVERAGE: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Gosplan SSSR (State Planning Commission USSR), the GNTK SSSR, the Gosudarstvennyy Komitet po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Building) and the Natsional'nyy Komitet SSSR po avtomaticheskomu upravleniyu (USSR National Committee on Automatic Controls) and prepared by the Nauchno-tekhnicheskiy komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee on Automated Electric Drives), the MEI (Moscow Institute of Energetics), the VNIIEM, the IAT (Institute of Automation and Telemechanics) of the Academy of Sciences USSR, and the Komissiya po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Commission on the Technology of Machine Building of the Institute of Science of Machines of the Academy of Sciences USSR). It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic controls of industrial mechanisms used in various branches of industry. Basic problems of automated electric drive and their solution are outlined. The book also contains articles on electric machinery and means of automation. Considerable attention is paid to noncontact automatic control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. Reports already published in journals or official publications have been considerably abbreviated; those which have appeared in volume V of NII EP transactions or in the journal "Elektrichestvo" are marked with an asterisk. No personalities are mentioned. References accompany some of the papers.

PART I. GENERAL PROBLEMS CONCERNING THE THEORY AND PRACTICE OF ELECTRIC DRIVE AND AUTOMATION OF CONTROL

BARSKIY, S.B., kand.tekhn.nauk; SHEREMET'YEVSKIY, N.N., doktor tekhn. nauk

Problems concerning the generation of electric power with increased frequency. Vest.elektroprom. 33 no.12:54-60 D '62. (MIRA 15:12)

(Electric power production)

SHEREMET'YEVSKIY P. P.

AID P - 2530

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 14/32

Author : Sheremet'yevskiy, P. P., Eng.

Title : 25 years of operation of the Fergana Heat and Electric Power Plant

Periodical : Elek sta, 6, 41, Je 1955

Abstract : The article describes the development of the region serviced by the Fergana Tets in the 25 years of its operation.

Institution : None

Submitted : No date

SHEREMET'YEVSKIY, P.P., inzh.

Cost of electric and thermal energy in steam power plants.
Elek.sta. 29 no.6:42-43 Je '58. (MIRA 11:9)
(Steam power plants--Costs)

AKULOV, N.S.; SHEREMUSHKINA, A.V.

On the theory of Hall effect in ferromagnetic materials. Dokl. AN SSSR 98 no.1:35-38 S '54. (MLRA 7:12)

1. Deystvitel'nyy chlen Akademii nauk BSSR (for Akulov).
(Hall effect) (Ferromagnetism)

SHERENGOVYY, P. Z.

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TITLE: On a plane problem of flow of a turbulent current of incompressible liquid. (O ploskoy zadache rastekaniya burnogo potoka neszhimayemoy zhidkosti).

PERIODICAL: Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk, 1958, No.1, pp. 72-78 (USSR).

ABSTRACT: The problem of plane motion of a current of incompressible liquid can be reduced to the solution of the following equations of motion:

$$v_x \frac{\partial v_x}{\partial x} + v_y \frac{\partial v_x}{\partial y} = - g \frac{\partial h}{\partial x} - g f_x,$$

$$v_x \frac{\partial v_y}{\partial y} + v_y \frac{\partial y_y}{\partial y} = - g \frac{\partial h}{\partial y} - g f_y \qquad (1.1)$$

where f_x and f_y are terms which take into account frictional forces and inclination of the bottom. These equations are obtained assuming hydrostatic distribution of pressure with depth and the independence of the velocity vector of depth at any point (x, y) in the plane of the

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(Eq.1.4) can be reduced to the single differential equation:

$$\left(1 - \frac{v_x^2}{gh}\right)\frac{\partial^2\varphi}{\partial x^2} - 2\frac{v_x v_y}{gh}\frac{\partial\varphi^2}{\partial x\,\partial y} + \left(1 - \frac{v_y^2}{gh}\right)\frac{\partial^2\varphi}{\partial y^2} = 0 \quad (1.5)$$

where

$$v_x = \frac{\partial\varphi}{\partial x}, \qquad v_y = \frac{\partial\varphi}{\partial y}$$

Eq.(1.5) in the present case will be of the hyperbolic type. The equations of its characteristics will be of the form:

$$\frac{dy}{dx} = \frac{v_x v_y \pm \sqrt{gh(v^2 - gh)}}{v_x^2 - gh} \quad \text{or} \quad \frac{dy}{dx} = \operatorname{tg}(\beta \mp \alpha) \qquad (1.6)$$

where the upper signs refer to the characteristics of the first family and the lower refer to the characteristics of the second family. β denotes the angle between the

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gives a curvilinear system of coordinates $\xi\eta$ which changes with changes in the flow. The values of the curvilinear coordinates which are functions of x and y, are connected with the current parameters via Eq.(1.8). Thus:

$$\beta = \xi - \eta, \quad f(\alpha) = \xi + \eta \tag{3.1}$$

where

$$f(\alpha) = \sqrt{3}\ \text{arc tg}\ \frac{\text{ctg}\ \alpha}{\sqrt{3}} + \alpha = \sqrt{3}\ \text{arc tg}\ \frac{\sqrt{F^2 - 1}}{\sqrt{3}} + \text{arc sin}\ \frac{1}{F}$$

It follows from Eq.(3.1) that along a line F = const the following condition is satisfied:

$$\xi + \eta = \text{const} \tag{3.3}$$

In the region of a simple wave F = const will be a straight line characteristic and in the region of interaction of simple waves the line F = const will be

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PHASE I TREASURE ISLAND BIBLIOGRAPHIC REPORT

BOOK

Call No.: TN686.T54

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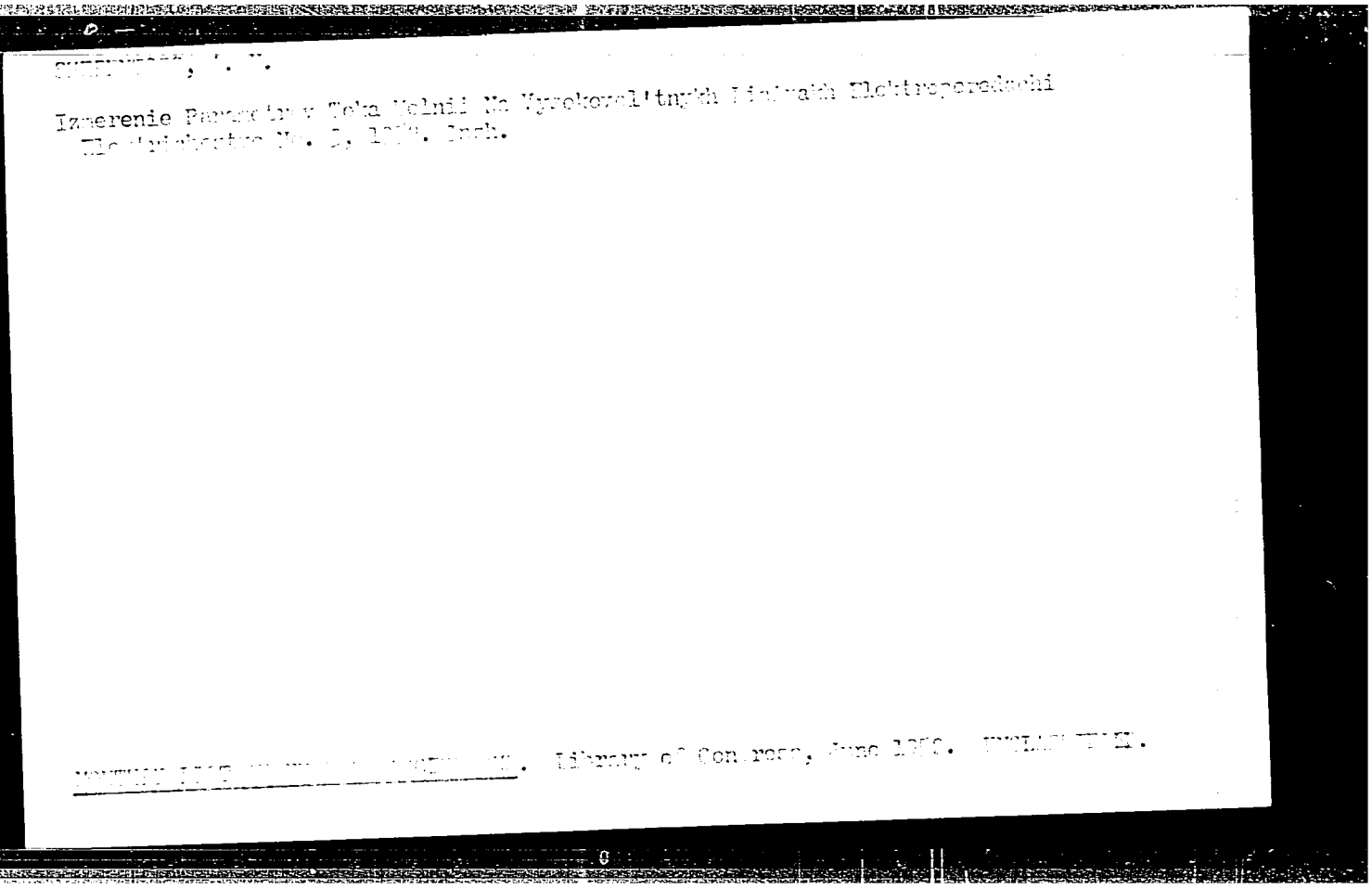

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SHERENTSIS, A. N.

621.315.051 : 621.315.09

4932. **Non-full-phase operating conditions on long transmission lines.** N. A. MEL'NIKOV AND A. N. SHERENTSIS. *Elektrichestvo*, 1954, *No.* 6, 3-7. Russian.

The usefulness of maintaining operation on duplex transmission systems in the case of an interruption of individual phase in one or more line sections is discussed. The resulting asymmetry of the currents and voltages in the parts of the circuits which in themselves remain symmetrical may be reduced by artificial means. This is particularly necessary if (as recommended by the regulations) on the cutting-out of a faulted phase in one of the two circuits, the corresponding phase of the other circuit is also disconnected. The resulting asymmetry may then, without intervention of the longitudinal compensation, exceed the permissible limits for hydro-generators mostly supplying the long-distance transmission systems. The transverse compensation may also play a certain part in reducing the asymmetry. It is obvious that the system protection needs a special adjustment where this type of operation is intended. The effects on the transmitting capacity and stability are analysed in a theoretical appendix.

B. P. KRAUS

Sherentsis, A. N.

AID P - 602

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 6/35

Authors : Kostenko, M. V., Dr. of Tech. Sci., Polovoy, I. F., Kand. of Tech. Sci., Leningrad Polytechnic Institute im. Kalinin, Sherentsis, A. N., Eng., Teploelektroproyekt

Title : Selection of the surge insulation level of 400-kv apparatus and transformers

Periodical : Elektrichestvo, 8, 31-36, Ag 1954

Abstract : In 1949 the All-Union Electrotechnical Institute im. Lenin (VEI) worked out "Instructions Concerning the Insulation Level for Designing 400-kv AC Installations". The VEI and the Leningrad Polytechnic Institute made special tests on the lightning protection of 400-kv substations. The importance of an uninterrupted operation of these installations was taken into consideration as well as the low probability of surges coming into the substation from the transmission lines with a high-level

SHERENTSIS A.N

AID P - 1215

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 10/34

Authors : Mel'nikov, N. A., Kand. of Tech. Sci., and Sherentsis, A. N., Eng.

Title : Tapping power from electric transmission lines through capacitors

Periodical : Elektrichestvo, 12, 51-56, D 1954

Abstract : The frequent need to tap small quantities of power for local (agricultural or auxiliary) use from a high voltage electric transmission line without building costly substations is discussed. Such tapping can best be done through the installation of capacitors of high frequency communication system. The cost of additional equipment is low. With the power factor 0.8, it is possible to obtain a tapped capacity up to 360 kw. 12 diagrams, 3 Russian references (1950-1952).

Institutions: VZEI (All-Union Correspondence Electrical Institute) and TEPLOENERGOPROYEKT (Trust for the Planning and Investigation of Thermal and Electric Power Plants, Networks and Substations)

Submitted : Jl 10, 1954

Shumenetskiy, A.N.

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021.315.17

1874 CONVERSION OF 35-400 kV POWER TRANSMISSION LINES TO A HIGHER VOLTAGE RATING. A.N. Shumenetskiy. Elekt. Stantsii, 1958, No. 7, 31-41. In Russian.

Summarises the published information on the conversion of two French 110 and 120 kV lines to 150 kV, three French and one Chinese 150 kV lines to 220 kV, and one German 220 kV line to 300 kV, with respect to conductor size, clearances, number and type of insulators and electric strength. The estimated increase of corona losses and the question of maximum switching over-voltages are discussed on the basis of American and Swedish experience, and recommendations are made for the conversion of 35, 110, 220 and 400 kV lines to 60, 150, 300 and 500 kV respectively.

F.Busemann

SHERENTSIS, A.N., inzh.

Protection of transmission lines against atmospheric overvoltages (from "El.Times," no.3383-3384 1956). Elek.sta. supplement no.6:41-43 N-D '57. (MIRA 11:2)

(Electric lines)